

# Cumulative Test

For use after Chapters 1-7

Estimate the sum, difference, product or quotient.

- |                  |                    |                    |
|------------------|--------------------|--------------------|
| 1. $191 - 39$    | 2. $435 + 591$     | 3. $17 \times 28$  |
| 4. $516 \div 24$ | 5. $14 \times 621$ | 6. $1231 \div 445$ |

Find the value of the power.

- |          |          |            |
|----------|----------|------------|
| 7. $8^2$ | 8. $2^5$ | 9. 5 cubed |
|----------|----------|------------|

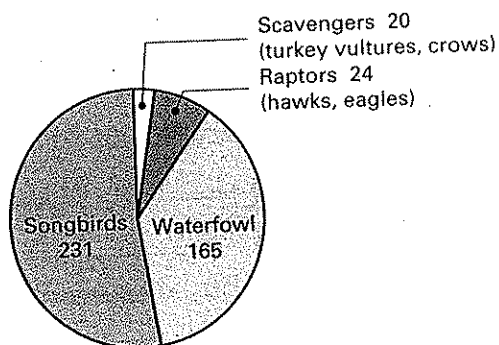
Solve the equation using mental math.

- |                     |                      |
|---------------------|----------------------|
| 10. $13 - x = 5$    | 11. $y \cdot 7 = 42$ |
| 12. $54 \div t = 6$ | 13. $14 + z = 22$    |

14. The height of a hemlock tree is 38 feet. The height of an Oak tree is 66 feet. How much taller is the oak tree?
15. The scale on a scale drawing is 1 inch : 3 feet. A distance on the drawing is 8 inches. What is the actual distance?

The circle graph shows the types of birds sighted at an annual bird count in a national wildlife reserve.

16. How many birds were sighted?
17. How many more songbirds than waterfowl were sighted?
18. How many raptor sightings would you expect in a count of a nearby area that had a total of 880 bird sightings?



19. The data show the price charged by roadside stands for a dozen ears of corn. Find the mean, median, mode(s), and range of the data.

Dollars: 2, 2, 3, 4, 4, 3, 3, 4, 4, 3, 2, 2

20. Write 13.015 in words.

## Answers

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_
6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_
11. \_\_\_\_\_
12. \_\_\_\_\_
13. \_\_\_\_\_
14. \_\_\_\_\_
15. \_\_\_\_\_
16. \_\_\_\_\_
17. \_\_\_\_\_
18. \_\_\_\_\_
19. \_\_\_\_\_
20. \_\_\_\_\_

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**Order the numbers from least to greatest.**

21. 7.01, 7.2, 7.15, 7.005

22. 0.0125, 0.0105, 0.0215, 0.0055

**Round the decimal as specified.**

23. 13.1355 (nearest hundredth)

24. 0.003152 (leading digit)

**Use rounding to estimate the sum or difference.**

25.  $5.8 + 0.7$

26.  $17.1 + 4.6$

27.  $18.7 - 6.8$

**Find the sum or difference.**

28.  $15.2 + 18.71$

29.  $27.38 - 15.8$

30.  $13.1 - 7.36$

31. You need \$121.50 for a new bike, and you have saved \$83.67.  
How much more money do you need to save?

**Multiply. Use estimation to check that the product is reasonable.**

32.  $7.6 \times 8$

33.  $11.35 \times 2.4$

34.  $8.9 \times 0.013$

35. One math book costs \$45.85. What does it cost to buy books for a class of 35 students?

**Find the product or quotient using mental math.**

36.  $7.25 \times 1000$

37.  $1.86 \times 0.01$

38.  $156.24 \div 0.001$

**Divide.**

39.  $2.6 \div 0.8$

40.  $6.3125 \div 1.25$

**Complete the statement.**

41. 1.25 mg = ? g

42. 5.24 km = ? m

43. A two liter bottle of soda contains 216 grams of sugar.  
How many milligrams of sugar are in the bottle?

**Write the prime factorization of the number.**

44. 18

45. 56

46. 84

## Answers

21. \_\_\_\_\_

22. \_\_\_\_\_

23. \_\_\_\_\_

24. \_\_\_\_\_

25. \_\_\_\_\_

26. \_\_\_\_\_

27. \_\_\_\_\_

28. \_\_\_\_\_

29. \_\_\_\_\_

30. \_\_\_\_\_

31. \_\_\_\_\_

32. \_\_\_\_\_

33. \_\_\_\_\_

34. \_\_\_\_\_

35. \_\_\_\_\_

36. \_\_\_\_\_

37. \_\_\_\_\_

38. \_\_\_\_\_

39. \_\_\_\_\_

40. \_\_\_\_\_

41. \_\_\_\_\_

42. \_\_\_\_\_

43. \_\_\_\_\_

44. \_\_\_\_\_

45. \_\_\_\_\_

46. \_\_\_\_\_

# Cumulative Test

For use after Chapters 1-7

Find the GCF and LCM of the numbers.

47. 28, 76

48. 66, 88

Tell whether the fraction is in simplest form. If not, simplify it.

49.  $\frac{23}{28}$

50.  $\frac{36}{48}$

51.  $\frac{39}{91}$

Find the value of  $x$ .

52.  $\frac{x}{15} = \frac{21}{45}$

53.  $\frac{8}{13} = \frac{48}{x}$

54. Order the fractions from least to greatest:  $\frac{7}{8}, \frac{3}{4}, \frac{8}{6}, \frac{4}{10}$

Draw a line segment that has the given length.

55.  $\frac{7}{4}$  in.

56.  $2\frac{1}{2}$  in.

57. Write  $2\frac{3}{8}$  as an improper fraction and as a decimal.

58. Your woodshop class is building birdhouses. A bluebird requires an entrance hole  $\frac{3}{2}$  inches in diameter, a nuthatch needs a  $1\frac{3}{8}$  inch hole, and a wren needs a  $\frac{5}{4}$  inch hole. Which bird can use the smallest hole?

Estimate the sum or difference.

59.  $\frac{1}{4} + \frac{7}{9}$

60.  $3\frac{12}{13} - 1\frac{5}{11}$

61.  $8\frac{6}{13} - 5\frac{11}{20}$

Find the sum or difference.

62.  $\frac{7}{18} + \frac{5}{18}$

63.  $\frac{5}{6} + \frac{7}{24}$

64.  $8\frac{2}{3} + 4\frac{1}{12}$

65.  $\frac{7}{9} - \frac{4}{9}$

66.  $\frac{11}{15} - \frac{3}{5}$

67.  $8\frac{1}{4} - 3\frac{2}{3}$

68. A baby ate  $\frac{1}{3}$  bowl of cereal one morning and  $\frac{1}{2}$  bowl the next. How much more cereal did she eat the second day?

## Answers

47. \_\_\_\_\_

48. \_\_\_\_\_

49. \_\_\_\_\_

50. \_\_\_\_\_

51. \_\_\_\_\_

52. \_\_\_\_\_

53. \_\_\_\_\_

54. \_\_\_\_\_

55. See left.

56. See left.

57. \_\_\_\_\_

58. \_\_\_\_\_

59. \_\_\_\_\_

60. \_\_\_\_\_

61. \_\_\_\_\_

62. \_\_\_\_\_

63. \_\_\_\_\_

64. \_\_\_\_\_

65. \_\_\_\_\_

66. \_\_\_\_\_

67. \_\_\_\_\_

68. \_\_\_\_\_

# Cumulative Test

For use after Chapters 1-7

## Find the elapsed time.

69. 3:25 P.M. to 8:15 P.M.      70. 11:45 A.M. to 2:10 P.M.  
71. You've watched 1 hour and 13 minutes of a three-hour video.  
How much time remains of the video?

## Find the product.

72.  $\frac{3}{8} \times \frac{2}{5}$       73.  $\frac{1}{8} \times \frac{7}{9}$       74.  $1\frac{2}{3} \times 6$   
75.  $\frac{2}{3} \times 3\frac{1}{8}$       76.  $2\frac{1}{5} \times 3\frac{1}{8}$       77.  $4\frac{1}{5} \times 1\frac{1}{7}$   
78. Estimate the product  $\frac{5}{9} \times 79$ .  
79. Lauren hiked in the woods for  $\frac{3}{5}$  of an hour. How long did she hike in minutes?

## Find the quotient.

80.  $\frac{1}{3} \div \frac{9}{11}$       81.  $\frac{2}{5} \div 6$   
82.  $8 \div \frac{3}{4}$       83.  $1\frac{2}{3} \div 2\frac{1}{4}$   
84.  $1\frac{3}{4} \div 2\frac{1}{3}$       85.  $3\frac{1}{4} \div 1\frac{7}{8}$   
86. Evaluate the expression  $\frac{2}{3} \div x$  when  $x = \frac{5}{7}$ .

## Choose an appropriate customary and metric unit to measure the item.

87. the weight of a mouse  
88. the capacity of a bathtub

## Change the measurement to the specified unit.

89. 19 feet to yards  
90. 7 quarts to pints

## Answers

69. \_\_\_\_\_  
70. \_\_\_\_\_  
71. \_\_\_\_\_  
72. \_\_\_\_\_  
73. \_\_\_\_\_  
74. \_\_\_\_\_  
75. \_\_\_\_\_  
76. \_\_\_\_\_  
77. \_\_\_\_\_  
78. \_\_\_\_\_  
79. \_\_\_\_\_  
80. \_\_\_\_\_  
81. \_\_\_\_\_  
82. \_\_\_\_\_  
83. \_\_\_\_\_  
84. \_\_\_\_\_  
85. \_\_\_\_\_  
86. \_\_\_\_\_  
87. \_\_\_\_\_  
88. \_\_\_\_\_  
89. \_\_\_\_\_  
90. \_\_\_\_\_